AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Original) A fastening element, comprising:

a mandrel including a foot and a head, the head having a head diameter greater than a mandrel diameter; and

a hollow shank including:

a setting head at a free end;

a deformation segment operably forming a closure head;

a connecting segment configurable inside the shank

operably forming a tension-resistant connection with the mandrel foot; and

a shank end opposed to the setting head having a punching edge extending substantially along an outermost periphery of the shank.

- 2. (Currently Amended) The fastening element system of Claim [1]] 21, wherein the shank and the mandrel are positively connectably geometrically.
- 3. (Currently Amended) The fastening element system of Claim [1]] 21, wherein the shank and the mandrel are detachably connectable.
- 4. (Currently Amended) The fastening element system of Claim 3, wherein the shank and the mandrel are threadably connectable.

- 5 . (Currently Amended) The fastening element system of Claim [[4]] 21, wherein the mandrel foot and the shank end are threadably connectable.
- 6. (Currently Amended) The fastening element system of Claim [[5]] 21, comprising:

the mandrel foot including an external thread; and
the shank end including an internal thread engageable with the
external thread of the mandrel foot.

7 . (Currently Amended) The fastening element system of Claim [[1]] 21, comprising:

the mandrel foot having a first diameter; and
an outside of the shank end having the punching edge formed
thereon having a second diameter;

wherein the first diameter is one of equal to and greater than the second diameter.

8. (Cancelled)

- 9. (Currently Amended) The fastening element system of Claim [[1]] 21, wherein the setting head comprises a diameter greater than any one of a deformation segment diameter, a shank end diameter and a mandrel foot diameter.
- 10 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein the fastening element fastener is comprises a metal.
- 11. (Currently Amended) The fastening element system of Claim 10, wherein the metal comprises at least one of steel, aluminum and an aluminum alloy.
- 12 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein a cross section of the fastening element is substantially circular.
- 13 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein a cross section of the fastening element is substantially polygonal.
- 14 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein the mandrel head comprises a fastener driving element.
- 15 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein the shank comprises an open end.

16 . (Currently Amended) The fastening element system of Claim [[1]] 21, wherein the shank comprises a closed end.

7-20. (Cancelled)

- 21. (Currently Amended) A fastener setting system, comprising: a fastener including:
 - (i) a first non-frangible mandrel having a foot; and
 - (ii) a hollow shank including:
 - (a) a setting head at a free end;
 - (b) a deformation segment for forming a closure head;
- (c) a connecting segment configurable inside the shank operably forming a fastenable connection with the mandrel foot; and
- (d) a shank end opposed to the setting head having a punching workpiece-self piercing edge extending substantially along an outermost periphery of the shank;

a die;

a ram including a second mandrel detachably connectable to the mandrel
and operably advancing the [[fastening element;]] fastener toward the die
a holding tool to hold the setting head against a work, the ram and
the holding tool being movable relative to the die independently of each other.

22. (Original) A device, comprising:

a fastening element having a setting head and a mandrel engageable into at least one part;

a die;

a ram operably punching the fastening element through the at least one part;

a holding tool operably holding the setting head against the at least one part; and

a traction tool operably retracting the mandrel;

wherein the ram and the holding tool are movable relative to the die independently of each other.

- 23. (Original) The device of Claim 22, wherein the mandrel comprises an external thread operably forming a releasable connection with the fastening element.
- 24. (Original) The device of Claim 22, wherein the die comprises a disposal passage operably disposing each of a plurality of punched parts.
- 25. (Original) The device of Claim 22, comprising a counterforce structure operable to dynamically interlock the ram and the die.
 - 26. (Original) The device of claim 22, comprising at least one of: a moving means;

a means for determining a ram position;

a means for determining a holding tool position; and

at least one force sensor operably detecting a force involved in setting a rivet.

27. (Original) A fastening element system, the system comprising:
a fastening element including:

a mandrel; and

a hollow shaft including:

a setting head at a shaft first end;

a deformation segment operably forming a closure

head;

a connecting segment configurable inside the shaft;

and

a shaft second end opposed to the setting head having a punching edge extending substantially along an outermost periphery of the shaft;

a die operable to create a punch opening having a variable diameter in the at least one part, the die including at least two segments operably absorbing a punching force and operably forming the punch opening capable of accommodating the closure head of the fastening element;

a die receptacle having the segments movably lodged therein; and at least one spring element operably holding the segments together.

- 28. (Original) The system of Claim 27, wherein the segments are radially displaceable.
- 29. (Original) The system of claim 27, comprising:

 each segment including a planar bearing surface; and
 the die receptacle including a substantially planar countersurface
 operably transmitting the punching force to the die receptacle.
- 30. (Original) The system of Claim 27, wherein each segment comprises a spring element receptacle.
- 31. (Original) The system of Claim 27, wherein the die receptacle comprises an annular stop.
 - 32. (Original) The system of claim 31, further comprising:
 the annular stop including an annular stop surface; and
 each segment including a segment stop surface;
 wherein the segment stop surface is positionable behind the

annular stop surface in relation to the at least one part by a distance ranging between 0.1 to 0.3 mm, the distance operably ensuring mobility of the segments during a fastening element setting operation.

- 33. (Original) The system of Claim 32, wherein the distance ranges between 0.15 mm to 0.25 mm.
- 34. (Currently Amended) The system of Claim 27, comprising less than five of the segments.
- 35. (Original) The system of Claim 27, wherein the spring element comprises a rubber ring.
- 36. (Original) The system of Claim 27, wherein the spring element comprises a spiral ring.
- 37. (Original) The system of Claim 27, wherein the die comprises a transversely extendable vent hole.
- 38. (Original) The system of Claim 27, wherein the punch opening formable by the segments comprises a rotationally asymmetrical cross section.
- 39. (Original) The system of Claim 38, wherein the punch opening comprises a substantially polygonal cross section.
 - 40. (Original) The system of Claim 39, wherein the punch opening comprises a

tooth when viewed in cross section.

41-50. (Cancelled)

51. (New) A rivet setting system comprising:

a blind rivet comprising a mandrel threadably engageable with a shank, the shank having open ends;

a workpiece;

a machine operable to rotate the mandrel relative to the shank in order to expand a portion of the shank and retain the shank within a hole in the workpiece; and an accessory secured to the workpiece by the mandrel.

- 52. (New) The system of Claim 51, wherein the machine comprises a ram, a holding tool and a tension tool.
- 53. (New) The system of Claim 51, wherein the machine comprises a die including movable die segments surrounding a central passageway.
- 54. (New) The system of Claim 51, wherein the machine comprises a force sensor.
- 55. (New) The system of Claim 51, wherein the mandrel includes an enlarged head.

- 56. (New) The system of Claim 51, wherein the shank includes a flanged head.
- 57. (New) The system of Claim 51, further comprising a second workpiece retained to the first workpiece by the shank, a portion of the shank being disposed between the workpieces and the accessory.
 - 58. (New) A rivet setting system comprising:

a rivet;

a ram operably advancing the rivet; and

- a die comprising die segments movably located about a central passageway, the die segments including formations operably deterring undesired rotation of the rivet.
- 59. (New) The system of Claim 58, wherein the rivet includes a mandrel engageable with a shank and movement of the mandrel relative to the shank expands a portion of the shank.
- 60. (New) The system of Claim 59, wherein the mandrel is threadably engageable with the shank.
 - 61. (New) The system of Claim 59, wherein the mandrel is non-frangible.

- 62. (New) The system of Claim 59, wherein the mandrel includes a frangible stem and an enlarged head opposite the ram.
- 63. (New) The system of Claim 58, wherein the ram includes a mandrel and the rivet includes an expandable shank, the mandrel being threadably engageable with the shank.
- 64. (New) The system of Claim 58, wherein the formations of the die segments include inwardly projecting teeth.
- 65. (New) The system of Claim 58, wherein the formations of the die segments include offset surfaces.
 - 66. (New) The system of Claim 58, wherein the rivet is a blind rivet.
 - 67. (New) A fastener setting system comprising:

a mandrel;

a fastener including a shank, the mandrel acting to expand the shank;

a machine operably advancing the shank and rotating the mandrel relative to the shank; and

a sensor operably monitoring a characteristic associated with movement of at least one of the mandrel and the shank.

- 68. (New) The system of Claim 67, wherein the machine comprises a ram, a holding tool and a tension tool.
- 69. (New) The system of Claim 67, wherein the machine comprises a die including movable die segments surrounding a central passageway.
- 70. (New) The system of Claim 67, wherein the sensor is a force sensor monitoring traction and punching.
- 71. (New) The system of Claim 67, wherein the mandrel includes an enlarged head.
 - 72. (New) The system of Claim 67, wherein the shank includes a flanged head.
- 73. (New) The system of Claim 67, wherein the mandrel is threadably engageable with the shank.
 - 74. (New) The system of Claim 67, wherein the mandrel is non-frangible.
- 75. (New) The system of Claim 67, wherein the machine includes a fastener-advancing ram, and the mandrel includes a frangible stem and an enlarged head opposite the ram.

